

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2020 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2020 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento Bypass or North Levee			Right	1.74
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/7/2020 - 4/7/2020			
DWR Inspector	Zach Jojola			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_ST0008_01_s_2013_3				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_ST0008_01_f_2017_4				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_ST0008_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Yard has a written response plan and regular flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.87	Rating **	A/W	Issue No.	9
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.602871 °	38.602871 °
				-121.574960 °	-121.574960 °
DWR ID	DWR_ST0008_01_f_2018_9				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There possibly is a beaver den on the edge of the waterside berm. It is not within the levee prism. Recommend monitoring for activity.					

Photo 1 of 1 : SP_2020_ST0008_284_9_20200228_00003.jpg



View of the hole on the waterside toe road. Fall 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.05	Rating **	M	Issue No.	16	
LM End	1.05	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.602336 °	38.602336 °	
				-121.578281 °	-121.578281 °	
DWR ID	19068					
Comment Code						
Inspector Comment						
DS_ID:19068 FS_ID:56647 EP_NO: 17254 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 03/23/2020 Record upgraded to Non-Urgent due to conflicting/missing contact information of owner on warning sign. Need to follow up with owner. Only 1 of previously 2 cable signs present on the LS. Otherwise, no issues observed during inspection. Verify if Permit No. 17254 applies only to associated crossing on Unit 2. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP) 10/04/2012 2 cable indicators/signs found on LS. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 6-inch high-density polyethylene (HDPE) casing containing three 1.5-inch fiber optics conduits across and bored under the left (south) bank levee of the Sacramento Bypass and under the U.S. Army Corps of Engineers slurry wall, at an unknown depth. (6-inch casing and three 1.5-inch conduits authorized under Permit No. 17254, 2000 - American Telephone and Telegraph Company [AT&T]). Permit No. 17254 authorized the removal of existing fiber optic conduits authorized under Permit No. 14673 and the relocation of three 1.5-inch conduits and their 6-inch HDPE casing from HLM 1.10 to HLM 1.12 on Levee Unit 2. (5-inch steel conduit containing fiber optic communication cable bored under the channel and both levees of the Sacramento Bypass [HLM 1.15 Unit 1 and HLM 1.10 Unit 2] at an unknown depth authorized under Permit No 14673, 1987 - American Telephone and Telegraph Company [AT&T]). FS Date: 3/23/2020 7:16:00 AM						

Photo 1 of 3 : UCIP_SP_2020_56647_83663.jpg



Overview of the levee crown looking d/s with cable sign on the LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.05	Rating **	M	Issue No.	16 (cont)
LM End	1.05	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.602336 °	38.602336 °	
			-121.578281 °	-121.578281 °	
DWR ID	19068				

Photo 2 of 3 : UCIP_SP_2020_56647_83664.jpg



LS view: Cable sign near the levee toe.

LM Start	1.05	Rating **	M	Issue No.	16 (cont)
LM End	1.05	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56647_83665.jpg



LS view: Levee slope viewed from the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.09	Rating **	M	Issue No.	17	
LM End	1.09	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.602169 °	38.602169 °	
				-121.579000 °	-121.579000 °	
DWR ID	19076					
Comment Code						
Inspector Comment						
DS_ID:19076 FS_ID:56574 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 03/23/2020 Record upgraded from No Action Needed to Non-Urgent due to missing permits authorizing crossing and abandonment. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP)10/04/2012 A concrete saddle found on slough/drainage. No pump was found on LS and no structure/pipe found on WS. P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, at an unknown depth. Grouted in place. Remains of concrete structure found on the landside (LS). [Additional References: USACE Sacramento O&M Manual Unit 122 - North Levee of Sacramento Bypass - Part 1, August 1955, revised 29 December 2016 (RM 174), USACE As-Built Drawing No 50-10-2796, Sheets 2 and 3 pdf file, April 1951]. FS Date: 3/23/2020 9:39:00 AM						

LM Start	1.09	Rating **	M	Issue No.	17 (cont)
LM End	1.09	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56574_83668.jpg



Overview of the levee crown looking d/s.

Photo 2 of 3 : UCIP_SP_2020_56574_83671.jpg



Overview of the LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.10	Rating **	M	Issue No.	18 (cont)
LM End	1.10	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.602134 °	38.602134 °
				-121.579120 °	-121.579120 °
DWR ID	19066				

Photo 2 of 3 : UCIP_SP_2020_56649_83676.jpg



WS view: Siphon breaker.

LM Start	1.10	Rating **	M	Issue No.	18 (cont)
LM End	1.10	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56649_83677.jpg



WS view: Siphon breaker and air vent on the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.10	Rating **	M	Issue No.	19	
LM End	1.10	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.602130 °	38.602130 °	
				-121.579130 °	-121.579130 °	
DWR ID	810					
Comment Code						
Inspector Comment						
DS_ID:810 FS_ID:56576 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 03/23/2020 Record upgraded to Non-Urgent. Geophysical study (07-20-2018) found no evidence of the pipe. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP)10/04/2012 Not Found, Installed. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch concrete culvert through the levee, 28.0 feet below crown. A 24-inch pipe is sleeved through the culvert with the annular space grouted. A screw gate is in the concrete well on the waterward shoulder. (R.D. 537 pumping plant). [Additional Reference: DWR Levee Log, 2004 (HLM 1.10)]. FS Date: 3/23/2020 10:27:00 AM						

Photo 1 of 1 : UCIP_SP_2020_56576_83674.jpg



Overview of the levee crown at assumed location of crossing looking d/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.10	Rating **	M	Issue No.	20
LM End	1.10	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.602128 °	38.602128 °
				-121.579150 °	-121.579150 °
DWR ID	19079				
Comment Code					
Inspector Comment					
DS_ID:19079 FS_ID:56577 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/23/2020 Record remains Non-Urgent due to erosion of the WS levee slope below the air vent (some cobble rock protection present) and erosion below the riser. Recommend further erosion repair. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP)10/04/2012 Horizontal Air vent on waterside slope. Green vegetation and depressions also found on waterside slope. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: [Agricultural Drainage Pumping System] 2 of 2: 20-inch concrete encased steel discharge pipeline through the right bank (north) levee of the Sacramento Bypass, 6.33 feet below the crown. Siphon breaker on the waterside (WS). Vertical galvanized iron pipe trash rack on the inlet structure. (24-inch and 20-inch pipeline authorized under Permit No. 13616, 1995 - Reclamation District No. 537 [revised]). FS Date: 3/23/2020 2:28:00 PM					

LM Start	1.10	Rating **	M	Issue No.	20 (cont)
LM End	1.10	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56577_83682.jpg



Overview of the levee crown looking d/s.

Photo 2 of 3 : UCIP_SP_2020_56577_83683.jpg



WS view: Siphon breaker and air vent.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.15	Rating **	M	Issue No.	8
LM End	1.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.601875 °	38.599391 °
				-121.580007 °	-121.589987 °
DWR ID	DWR_ST0008_01_s_2020_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_ST0008_284_8_20200409_00014.jpg



View of vegetation on the waterside slope. Spring 2020.

LM Start	1.19	Rating **	M	Issue No.	22
LM End	1.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.601709 °	38.601709 °
				-121.580680 °	-121.580680 °
DWR ID	19067				
Comment Code					
Inspector Comment					
DS_ID:19067 FS_ID:56650 EP_NO: 17497 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 03/23/2020 No issues observed during inspection. Record upgraded to Non-Urgent due to missing maintenance and performance records. Recommend placing additional pipeline marks closer to the levee shoulder. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP)10/04/2012 Marker found on landside of the levee. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch steel jet fuel pipeline bored under the Sacramento River, Sacramento Bypass, and their levees, at an unknown depth. Markers found on the landside (LS) of the levee. (12-inch pipeline authorized under Permit No. 17497, 2003 - Wickland Pipelines LLC). (Realignment of portion of pipeline due to the Lower Elkhorn Basin Levee Setback Project is authorized under Permit No. 17497-1, 2019 - Wickland Pipelines LLC). FS Date: 3/23/2020 2:33:00 PM					

Photo 1 of 3 : UCIP_SP_2020_56650_83691.jpg



Overview of the levee crown looking d/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.19	Rating **	M	Issue No.	22 (cont)
LM End	1.19	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.601709 °	38.601709 °	
			-121.580680 °	-121.580680 °	
DWR ID	19067				

Photo 2 of 3 : UCIP_SP_2020_56650_83692.jpg



WS view: Looking down the levee slope.

LM Start	1.19	Rating **	M	Issue No.	22 (cont)
LM End	1.19	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56650_83693.jpg



LS view: Looking down the levee slope with petroleum pipeline marker in the background.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.28	Rating **	M	Issue No.	23	
LM End	1.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.601290 °	38.601290 °	
				-121.582220 °	-121.582220 °	
DWR ID	19075					
Comment Code						
Inspector Comment						
DS_ID:19075						
FS_ID:56651						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Not Found						
UCIP Comments: 03/23/2020 Record is Non-Urgent. No permit found authorizing crossing. Geophysical study (07-20-2018) found no evidence of the pipe. This is possibly the pipe that was authorized to be replaced by three 20-inch pipes in 1960 under Permit No. 3259. The 30-in pipe was supposed to be capped on both ends and completely filled by grouting. Need further investigation. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP)						
FIELD_STRUCT_DESC: 30-inch corrugated metal (CM) drainage pipe, invert elevation: 13.7 feet. [Additional References: USACE Sacramento O&M Manual 122 - North Levee of Sacramento Bypass - Part 1, August 1955, revised 29 December 2016 (RM 178), USACE As-Built Drawing No. 50-10-2796, Sheets 2 and 3 pdf file, April 1951, (Replacement of existing 30-inch pipe [HLM 1.30] authorized under Permit No. 3259, 1960 - Reclamation District No. 785)].						
FS Date: 3/23/2020 3:20:00 PM						

Photo 1 of 1 : UCIP_SP_2020_56651_83698.jpg



Overview of the levee crown at assumed location of crossing looking d/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.29	Rating **	M	Issue No.	24	
LM End	1.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.601230 °	38.601230 °	
				-121.582450 °	-121.582450 °	
DWR ID	19085					
Comment Code						
Inspector Comment						
DS_ID:19085 FS_ID:56673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 03/23/2020 Record is Non-Urgent. No permit found authorizing crossing. No evidence of pipe found during inspection. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP) FIELD_STRUCT_DESC: 2 of 3: 14-inch steel drainage pipe through the levee, at an unknown depth. Pump on the landside (LS). [Additional References: USACE Sacramento O&M Manual Unit 122 - North Levee of Sacramento Bypass - Part 1, August 1955, revised 29 December 2016 (RM 179), USACE As-Built Drawing No. 50-10-2796, Sheets 2 and 3 pdf file, April 1951, DWR Levee Log, 2004 (HLM 1.30)]. FS Date: 3/23/2020 8:46:00 AM						

Photo 1 of 1 : UCIP_SP_2020_56673_83700.jpg



Overview of the levee crown at assumed location of crossing looking d/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.29	Rating **	M	Issue No.	25	
LM End	1.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.601230 °	38.601230 °	
				-121.582450 °	-121.582450 °	
DWR ID	19074					
Comment Code						
Inspector Comment						
DS_ID:19074 FS_ID:56652 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 03/23/2020 Record is Non-Urgent. No permit found authorizing crossing. No evidence of pipe found during inspection. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP) FIELD_STRUCT_DESC: 1 of 3: 14-inch steel drainage pipe through the levee, at an unknown depth. Pump on the landside (LS). [Additional References: USACE Sacramento O&M Manual Unit 122 - North Levee of Sacramento Bypass - Part 1, August 1955, revised 29 December 2016 (RM 179), USACE As-Built Drawing No. 50-10-2796, Sheets 2 and 3 pdf file, April 1951, DWR Levee Log, 2004 (HLM 1.30)]. FS Date: 3/23/2020 3:27:00 PM						

Photo 1 of 1 : UCIP_SP_2020_56652_83699.jpg



Overview of the levee crown at assumed location of crossing looking d/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.29	Rating **	M	Issue No.	26
LM End	1.29	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.601231 °	38.601231 °	
			-121.582460 °	-121.582460 °	
DWR ID	813				

Comment Code

Inspector Comment

DS_ID:813
FS_ID:56661
EP_NO: 16279
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/23/2020 Record upgraded to Non-Urgent due to erosion of the WS levee slope around and below the riser. Some cobble rock protection present. Recommend further erosion repair. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP)10/04/2012 Found remains of concrete headwall and concrete box on the landside of the levee. Also found a flap gate cover on the WS berm. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 1 of 3: 20-inch coated steel drainage pipe through the levee, 5.7 feet below the crown. Vertical pump unit on the landside (LS). Metal cutoff wall installed. Siphon breaker on the waterside (WS) shoulder. Vertical galvanized iron pipe trash rack on the inlet of the pumping plant. (20-inch pipe authorized under Permit No. 3259, 1960 - Reclamation District No. 785. 20-inch pipe [HLM 1.30] replaced under Permit No. 16279, 1994 - Reclamation District No. 785). [Additional Reference: DWR Levee Log, 2004 (HLM 1.30)].
FS Date: 3/23/2020 10:02:00 AM

LM Start	1.29	Rating **	M	Issue No.	26 (cont)
LM End	1.29	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56661_83855.jpg



Overview of the levee crown looking d/s.

Photo 2 of 3 : UCIP_SP_2020_56661_83856.jpg



LS view: Overview and pumpstation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.29	Rating **	M	Issue No.	28	
LM End	1.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.601226 °	38.601226 °	
				-121.582479 °	-121.582479 °	
DWR ID	19080					
Comment Code						
Inspector Comment						
DS_ID:19080 FS_ID:56662 EP_NO: 16279 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 03/23/2020 Record upgraded to Non-Urgent due to erosion of the WS levee slope around and below the riser. Some cobble rock protection present. Recommend further erosion repair. Crossing is subject to relocation within the next 1 – 2 years due to the upcoming Lower Elkhorn Basin Levee Setback (LEBLS) Project. (S. Donovan - DWR UCIP)10/04/2012 Found remaining of concrete headwall and a concrete box on landside of the levee. (P. Amaty - DWR UCIP) FIELD_STRUCT_DESC: 2 of 3: 20-inch coated steel drainage pipe through the levee, 5.7 feet below the crown. Vertical pump unit on the landside (LS). Metal cutoff wall installed. Siphon breaker on the waterside (WS) shoulder. Vertical galvanized iron pipe trash rack on the inlet of the pumping plant. (20-inch pipe authorized under Permit No. 3259, 1960 - Reclamation District No. 785. 20-inch pipe [HLM 1.30] replaced under Permit No. 16279, 1994 - Reclamation District No. 785). [Additional Reference: DWR Levee Log, 2004 (HLM 1.30)]. FS Date: 3/23/2020 12:19:00 PM						

LM Start	1.29	Rating **	M	Issue No.	28 (cont)
LM End	1.29	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56662_83714.jpg



Overview of the levee crown looking d/s.

Photo 2 of 3 : UCIP_SP_2020_56662_83715.jpg



LS view: Overview and pump station.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.29	Rating **	M	Issue No.	29 (cont)
LM End	1.29	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.601225 °	38.601225 °	
			-121.582490 °	-121.582490 °	
DWR ID	19081				

Photo 2 of 3 : UCIP_SP_2020_56663_83729.jpg



LS view: Overview and pump station.

LM Start	1.29	Rating **	M	Issue No.	29 (cont)
LM End	1.29	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56663_83731.jpg



LS view: Levee slope and pump station.

LM Start	1.35	Rating **	M	Issue No.	10
LM End	1.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.600926 °	38.600766 °
				-121.583562 °	-121.584222 °
DWR ID	DWR_ST0008_01_s_2020_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Sacramento Bypass

No Photos

View of the cracking on the crown. Fall 2018.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.	15
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.599546 °	38.599546 °
				-121.590235 °	-121.590235 °
DWR ID	DWR_ST0008_01_s_2018_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is runoff erosion on the oversized levee section located on the waterside levee slope. Recommend monitoring.					

Photo 1 of 1 : SP_2020_ST0008_284_15_20200228_00004.jpg



View of erosion on waterside slope. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2020 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento Bypass or South Levee			Left	1.79
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/7/2020 - 4/7/2020			
DWR Inspector	Zach Jojola			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.03	Rating **	M	Issue No.	1
LM End	0.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.602589 °	38.599955 °
				-121.556070 °	-121.565733 °
DWR ID	DWR_ST0008_02_s_2020_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2020_ST0008_285_1_20200409_00002.jpg



View of vegetation on the landside slope. Spring 2020.

LM Start	0.38	Rating **	M	Issue No.	9
LM End	0.38	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.600985 °	38.600985 °
				-121.562216 °	-121.562216 °
DWR ID	25124				
Comment Code					
Inspector Comment					
DS_ID:25124 FS_ID:56664 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 3/26/2020 Record is Non-Urgent. No evidence of pipe found. Per Permit No. 7689, pipe was properly removed in 1972. Record is inactive. (S. Donovan - DWR UCIP) FIELD_STRUCT_DESC: *REMOVED* 18-inch dredge pipe of unknown material through the levee crown at 2 feet depth. (18-inch dredge pipe [HLM 0.38] authorized under Permit No. 7689, 1971 - Shellmaker, Inc.). FS Date: 3/26/2020 1:31:00 PM					

Photo 1 of 3 : UCIP_SP_2020_56664_83748.jpg



Overview of the levee crown at assumed location of crossing looking d/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	0.38	Rating **	M	Issue No.	9 (cont)	
LM End	0.38	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.600985 °	38.600985 °	
				-121.562216 °	-121.562216 °	
DWR ID	25124					

Photo 2 of 3 : UCIP_SP_2020_56664_83749.jpg



LS view: Overview of the levee slope at assumed location of crossing.

LM Start	0.38	Rating **	M	Issue No.	9 (cont)
LM End	0.38	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56664_83750.jpg



WS view: Overview of the levee slope at assumed location of crossing.

LM Start	1.15	Rating **	M	Issue No.	2
LM End	1.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.597707 °	38.595749 °
				-121.575704 °	-121.583253 °
DWR ID	DWR_ST0008_02_s_2020_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.16	Rating **	M	Issue No.	10	
LM End	1.16	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.597670 °	38.597670 °	
				-121.575970 °	-121.575970 °	
DWR ID	815					
Comment Code						
Inspector Comment						
DS_ID:815 FS_ID:56668 EP_NO: 7616 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 03/26/2020 Record upgraded to Non-Urgent due to conflicting location information. Recommend contacting owner for clarification. No evidence of pipe found during inspection. (S. Donovan - DWR UCIP) FIELD_STRUCT_DESC: 1.5-inch conduit (telephone) through the levee, 2 feet below the levee crown. (Telephone conduit [HLM 1.19] authorized under Permit No. 7616, 1971 - Pacific Telephone and Telegraph Company (PT&T). Renewal of Permit No. 7616 authorized under Permit No. 7616-A, 1973 - PT&T). [Additional Reference: DWR Levee Log, 2004 (HLM 1.17)]. FS Date: 3/26/2020 2:27:00 PM						

Photo 1 of 1 : UCIP_SP_2020_56668_83757.jpg



Overview of the levee crown at assumed location of crossing looking d/s.

LM Start	1.18	Rating **	M	Issue No.	11	
LM End	1.18	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.597620 °		38.597620 °
				-121.576280 °		-121.576280 °
DWR ID	816					
Comment Code						
Inspector Comment						
DS_ID:816 FS_ID:56659 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 03/26/2020 Record upgraded to Non-Urgent. Geophysical study (07-20-2018) found no evidence of the pipe. (S. Donovan - DWR UCIP) FIELD_STRUCT_DESC: 30-inch concrete culvert through the levee, 23.5 feet below the crown. A 24-inch pipe is sleeved through the 30-inch culvert with the annular space concrete grouted. A screw gate is in the concrete well on the waterward (WS) shoulder. [Additional Reference: DWR Levee Log, 2004 (HLM 1.18)]. FS Date: 3/26/2020 2:33:00 PM						

Photo 1 of 1 : UCIP_SP_2020_56659_83758.jpg



Overview of the levee crown at assumed location of crossing looking d/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.19	Rating **	M	Issue No.	12
LM End	1.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.597575 °	38.597575 °
				-121.576506 °	-121.576506 °
DWR ID	19071				

Comment Code

Inspector Comment

DS_ID:19071
FS_ID:56660
EP_NO: 14082
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/26/2020 Record remains No Action Needed.
Unable to verify presence of flap gate because discharge end submerged. Otherwise, no issues observed during inspection. (S. Donovan - DWR UCIP)10/04/2012 Vertical GI pipe trash rack in inlet structure. Big pumping plant with 5 pipes. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: [Reclamation District No. 537 Drainage Pump Station] 1 of 3: 42-inch coated steel drainage pipe through the levee, 2.8 feet below the crown. Pumping plant located 20 feet off the landside (LS) toe. Air release valve on the LS shoulder. Flap gate on the discharge end of the pipeline. Cutoff wall around pipes at levee center line. Walkway on the LS of the levee. Transformer on fill on the LS, 50 feet downstream of pump station, with underground electrical extension to pump station. (42-inch pipe [HLM 1.19 - HLM 1.23] authorized under Permit No. 14082, 1985 - Kaiser Development Company).
FS Date: 3/26/2020 3:11:00 PM

LM Start	1.19	Rating **	M	Issue No.	12 (cont)
LM End	1.19	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56660_83761.jpg



Overview of the levee crown looking d/s.

Photo 2 of 3 : UCIP_SP_2020_56660_83759.jpg



WS view: Overview of the levee slope and siphon breaker.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Sacramento Maintenance Yard Sacramento Bypass

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.20	Rating **	M	Issue No.	13 (cont)
LM End	1.20	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.597544 °	38.597544 °	
			-121.576621 °	-121.576621 °	
DWR ID	817				

Photo 2 of 3 : UCIP_SP_2020_56625_83791.jpg



WS view: Looking down the levee slope.

LM Start	1.20	Rating **	M	Issue No.	13 (cont)
LM End	1.20	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56625_83792.jpg



WS view: Partially submerged pipe outlet with missing flap gate and overview of the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.20	Rating **	M	Issue No.	14
LM End	1.20	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.597531 °	38.597531 °	
			-121.576676 °	-121.576676 °	
DWR ID	818				

Comment Code

Inspector Comment

DS_ID:818
FS_ID:56626
EP_NO: 2930
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 03/26/2020 Record upgraded to Non-Urgent due to the flap gate not fully closing. Need to investigate the actual depth of crossing due to conflicting information in the record sources. Crossing appears to be installed at an elevation higher than 23.5 feet below the crown. (S. Donovan - DWR UCIP)10/04/2012 Vertical GI pipe trash rack in inlet structure. Big pumping plant with 5 pipes. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: [Reclamation District No. 811 Drainage Pumping Plant] 42-inch drainage pipe through the levee, 23.5 feet below the crown. Pumping plant on a pipe structure in the drainage ditch on the landside (LS). Metal stairway on the LS slope to the pumping plant. Siphon breaker in an 18-inch corrugated metal pipe (CMP) riser on the LS slope. Flap gate on the waterside (WS) end. Cutoff wall around pipe at levee center line. (42-inch steel pipe [HLM 1.20] and pumping plant authorized under Permit No. 2930, 1958 - Reclamation District No. 811. Stairway to pumping plant authorized under Permit No. 3056, 1959 - Reclamation District No. 811).
[Additional Reference: DWR Levee Log, 2004 (HLM 1.21)].
FS Date: 3/26/2020 12:39:00 PM

LM Start	1.20	Rating **	M	Issue No.	14 (cont)
LM End	1.20	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2020_56626_83802.jpg



Overview of the levee crown looking d/s.

Photo 2 of 3 : UCIP_SP_2020_56626_83803.jpg



WS view: Looking down the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sacramento Maintenance Yard Sacramento Bypass

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.27	Rating **	M	Issue No.	15 (cont)
LM End	1.27	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.597181 °	38.597181 °	
			-121.577840 °	-121.577840 °	
DWR ID	19070				

Photo 2 of 3 : UCIP_SP_2020_56638_83815.jpg



WS view: Overview of the levee slope with petroleum pipeline marker.

LM Start	1.27	Rating **	M	Issue No.	15 (cont)
LM End	1.27	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2020_56638_83816.jpg



WS view: Overview of the levee slope with petroleum pipeline marker.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.27	Rating **	M	Issue No.	16	
LM End	1.27	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.597180 °	38.597180 °	
				-121.577850 °	-121.577850 °	
DWR ID	19078					
Comment Code						
Inspector Comment						
DS_ID:19078 FS_ID:56633 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 03/26/2020 Record is Non-Urgent. No evidence of pipe found during inspection. Geophysical study for nearby DSID 19077 (07-20-2018) found no evidence of a crossing at the site. No As-Built drawing found. (S. Donovan - DWR UCIP) FIELD_STRUCT_DESC: [Reclamation District No. 537 Drainage Pumping Plant] 2 of 2: 30-inch drainage pipe of an unknown material through the levee, at an unknown depth. Screw gate in a concrete well on the waterside (WS). Pumping plant on the landside (LS). [Additional Reference: USACE Sacramento O&M Manual, Unit 116, August 1955, listed as 30-inch drainage pipe]. FS Date: 3/26/2020 2:50:00 PM						

Photo 1 of 1 : UCIP_SP_2020_56633_83825.jpg



Overview of the levee crown at assumed crossing location looking d/s.

LM Start	1.27	Rating **	M	Issue No.	17
LM End	1.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.597180 °	38.597180 °
				-121.577850 °	-121.577850 °
DWR ID	19077				
Comment Code					
Inspector Comment					
DS_ID:19077 FS_ID:56631 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 03/26/2020 Record upgraded to Non-Urgent. Geophysical study (07-20-2018) found no evidence of the pipe. No As-Built drawing found. (S. Donovan - DWR UCIP) FIELD_STRUCT_DESC: [Reclamation District No. 537 Drainage Pumping Plant] 1 of 2: 30-inch drainage pipe of an unknown material through the levee, at an unknown depth. Screw gate in a concrete well on the waterside (WS). Pumping plant on the landside (LS). [Additional Reference: USACE Sacramento O&M Manual, Unit 116, August 1955, listed as 30-inch drainage pipe]. FS Date: 3/26/2020 2:47:00 PM					

Photo 1 of 1 : UCIP_SP_2020_56631_83824.jpg



Overview of the levee crown at assumed crossing location looking d/s.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2020

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	04/07/2020 04/07/2020	Zach Jojola

LM Start	1.31	Rating **	M	Issue No.	3
LM End	1.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.596964 °	38.596081 °
				-121.578600 °	-121.582020 °
DWR ID	DWR_ST0008_02_s_2020_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.77	Rating **	A/W	Issue No.	8
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.594710 °	38.594710 °
				-121.586582 °	-121.586582 °
DWR ID	DWR_ST0008_02_s_2019_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
This is a runoff location, but it is not within the levee prism. Recommend monitoring.					

Photo 1 of 1 : SP_2020_ST0008_285_8_20200228_00001.jpg



View of erosion on waterside levee slope. Spring 2017.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement